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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/736,999	12/13/2000	Doreen Yining Cheng	US008063	8478

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EXAMINER

OSMAN, RAMY M

ART UNIT	PAPER NUMBER
2157	

2157

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 09/736,999	Applicant(s) CHENG, DOREEN YINING	
	Examiner Ramy M Osman	Art Unit 2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 28 July 2004.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-22 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-22 is/are rejected.
- 7) Claim(s) 1 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Status of Claims

1. This communication is responsive to the amendment filed on July 28, 2004. Applicant amended claims 1,2,4,5,8,10-12,14 and 17-19. Claims 1-22 are pending.

Claim Objections

2. Claim 1 objected to because of the following informalities: Change the misspelled word 'Interopeability' to 'Interoperability'. Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1-22 rejected under 35 U.S.C. 103(a) as being unpatentable over Ramaswamy et al. (European Patent No. EP 1 058 422 A1) in view of Eytchison (US 2001/0047431 A1).**

5. In reference to claims 1,11,19 and 20, Ramaswamy teaches a system, method and network respectively for facilitating UPnP control of a plurality of non-UPnP devices on one or more slave networks (see page 1, section (57)), the system comprising:

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a UPnP interface to at least one UPnP controller, the UPnP controller being configured to issue a UPnP command in conformance with a UPnP protocol (column 2 line 33 – column 3 line 5 and column 6 lines 25-31, Ramaswamy discloses UPnP interfacing through a UPnP controlling application (node D), the node issuing a UPnP commands),

a UPnP proxy enabler that is configured to:

receive the UPnP command (column 3 lines 1-35, Ramaswamy discloses a UPnP bridge configured to receive UPnP commands),

transform the UPnP command into a device command (column 4 line 51 – column 5 line 51 and column 7, Ramaswamy discloses UPnP commands converted to device commands),

communicate the device command to a target device of the at least one non-UPnP device on the slave networks (column 6 line 10 – column 7 line 40, Ramaswamy discloses sending a command to a non-UPnP device on a sub-network),

wherein the one or more slave networks include one or more different networking technologies other than Home Audio-Video Interoperability (HAVi) compatible network technology (column 14 lines 42-46, Ramaswamy discloses where different networking types other than HAVi can be implemented with the invention), and

communicate a UPnP acknowledgement of the UPnP command to the at least one non-UPnP controller, via the UPnP interface (column 14 lines 9-42, Ramaswamy discloses the UPnP interface (node D) receiving an acknowledgement response of the UPnP command sent to the non-UPnP device).

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Ramaswamy does not explicitly teach another different network. However, Eytchinson teaches interoperability between a HAVi network and a VHN network (Abstract and Summary).

It would have been obvious for one of ordinary skill in the art to modify Ramaswamy by making the other network a VHN network as per the teachings of Eytchinson to establish interoperability between a UpnP network and a VHN network.

6. In reference to claims 2 and 12, Ramaswamy teaches the system and network respectively of claims 1 and 11, wherein the one or more different networking technologies include at least one of: a USB network, a bluetooth network, , an IEEE 1394 network, a Home API network, a HomeRF network, a Firefly network, a power line network, an X-10 network, and a Jim-compatible network (page 1, section (57), column 1 lines 30-35, column 4 lines 45-50 and column 14 lines 42-46, Ramaswamy discloses a non-UPnP networking environment as an IEEE 1394 networking environment).

7. In reference to claims 3,13 and 21, Ramaswamy teaches a system, method and network respectively of claims 1,11 and 19, wherein:

the UPnP controller is further configured to issue a UPnP request in conformance with the UPnP protocol (column 6, Ramaswamy discloses conforming to the UPnP protocol for the UPnP interface (node D) to send a request),

the UPnP request includes one of: a description request, a presentation request, a subscription request, and a query (columns 12-14, Ramaswamy discloses UPnP requests including requests and query/detection), and

the UpnP proxy enabler is configured to provide at least one of: a device description a service description, a presentation page, an event, and a value of a variable, in response to the

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UpnP request (columns 3-5 and column 6 lines 1-40, Ramaswamy discloses UPnP bridge (node C) configured to provide responses to the UPnP requests).

8. In reference to claims 4 and 14, Ramaswamy teaches a system and method of claims 1 and 11, wherein:

the UPnP proxy enabler includes at least one of a discovery module that is configured to provide an advertisement of at least one of the non-UpnP devices to the UPnP controller (column 3 line 1 – column 4 line 15 and column 13 lines 19-55, Ramaswamy discloses the bridge providing an ANNOUNCE message indicating discovery of a non-UPnP device to the UPnP network),

a description module that is configured to provide a description of functions of the plurality of non-UPnP device to the UPnP controller, in response to a request from the UPnP controller (column 3 line 1 – column 4 line 15 and column 13 line 55 – column 14 line 25, Ramaswamy discloses providing a description of the non-UPnP device to the UPnP network), and

a presentation module that is configured to provide a presentation page that facilitates a control of the plurality of non-UPnP device by a user (column 3 line 1 – column 4 line 15 and columns 6 & 14, Ramaswamy discloses a control presentation to control the non-UPnP device by a user).

9. In reference to claims 5 and 15, Ramaswamy teaches a system and method respectively of claims 4 and 14, wherein at least one of the discovery module, the description module, and the presentation module is configured to provide the advertisement, the description, and the

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presentation page, respectively, for the at least one non-UPnP device of the slave networks (columns 3,4,6,13 & 14, see above).

10. In reference to claims 6 and 16, Ramaswamy teaches a system and method of claims 1 and 11, wherein the UPnP proxy enabler includes at least one of:

a device control module that communicates commands to the target device (column 6 line 10 – column 7 line 40, Ramaswamy discloses sending a command to a target non-UPnP device on a sub-network),

an event subscription module that receives requests from the at least one UPnP controller to be notified of one or more changes of state of the target device (column 5 line 45 – column 6 line 58 and column 13, Ramaswamy discloses bridge receiving request from UPnP interface device (node D) for non-UPnP device (target device) information (state)), and

an event source module that notifies the at least one UPnP controller of one or more changes of state of the target device (column 3, column 5 line 45 – column 6 line 58, columns 13 & 14, Ramaswamy discloses bridge notifying UPnP device (node C) which notifies UPnP device (node D) of state changes in the non-UPnP target device).

11. In reference to claims 7 and 17, Ramaswamy teaches a system and method of claims 6 and 16, wherein:

the device control module maintains a service state table that reflects the state of the target device (column 3 & 13, Ramaswamy discloses maintaining a representation of each network element by the bridging device), and

the event source module notifies the at least one UPnP controller of the one or more changes of the state of the target device based on the service state table (column 3, column 5 line

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45 – column 6 line 58, columns 13 & 14, Ramaswamy discloses bridge notifying UPnP device (node C) which notifies UPnP device (node D) of state changes in the non-UPnP target device).

12. In reference to claim 8, Ramaswamy teaches a system of claim 1, wherein the UPnP proxy enabler communicates the device command to the target device by modifying a data structure that is associated with a thread, and the thread effects the communication to the plurality of non-UPnP device of the slave networks (column 5 line 45 – column 7 line 58 and column 13, Ramaswamy discloses the bridge communicating device command to non-UPnP device).

13. In reference to claim 9, Ramaswamy teaches system of claim 1, wherein the UPnP proxy enabler is further configured to detect a connection and disconnection of the at least one non-UPnP device, and update one or more data structures associated with the slave networks accordingly (column 5 line 45 – column 7 line 58 and column 13 line 1 – column 14 line 25, Ramaswamy discloses bridge detecting addition/removal of non-UPnP device and updating configuration data).

14. In reference to claim 10, Ramaswamy teaches system of claim 9, wherein the UPnP proxy enabler is further configured to initiate and terminate threads based on the connection and disconnection of each of the plurality of non-UPnP device (column 5 line 45 – column 6 line 58 and column 13 line 1 – column 13 line 25, Ramaswamy discloses initiating and terminating messages based on the addition/removal of non-UPnP devices).

15. In reference to claims 18 and 22, Ramaswamy teaches the method and network respectively of claims 11 and 19, further including creating a thread that is associated with each of the plurality of non-UPnP devices of the slave network, and modifying a data structure that is

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associated with the thread; and wherein the thread is configured to effect the communication of the device command to each of the plurality of non-UpnP devices of the slave network, based on the modification of the data structure (column 5 line 45 – column 7 line 58 and column 13 line 1 – column 14 line 25).

Response to Amendment

16. Examiner acknowledges the amendment filed on July 28, 2004. Applicant amended claims 1,2,4,5,8,10-12,14 and 17-19.

Response to Arguments

17. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after

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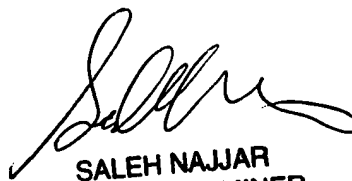
the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M Osman whose telephone number is (703) 305-8050. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (703) 308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMO
October 20, 2004



SALEH NAJJAR
PRIMARY EXAMINER